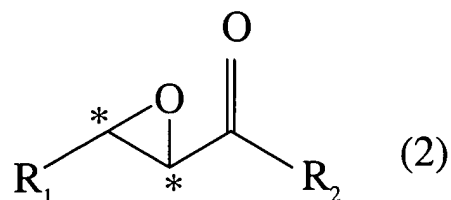


**AMENDMENTS TO THE CLAIMS:**

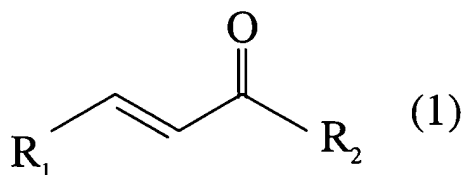
This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-3. Canceled.

4. (Currently Amended) A process for producing an optically active epoxide of the following formula (2):



wherein each of R<sub>1</sub> and R<sub>2</sub> which are independent of each other, is a C<sub>1-20</sub> linear, branched or cyclic alkyl group, an aromatic group, an aromatic group substituted by from 1 to 5 C<sub>1-5</sub> alkyl groups, an aromatic group substituted by from 1 to 5 C<sub>1-5</sub> alkoxy groups, an aromatic group substituted by from 1 to 5 halogen atoms, a C<sub>1-5</sub> linear, branched or cyclic alkyl group substituted by an aromatic group, or a C<sub>1-5</sub> linear, branched or cyclic alkyl group substituted by a halogenated aromatic group, and symbol \* represents optically active carbon, which comprises reacting an enone of the following formula (1)



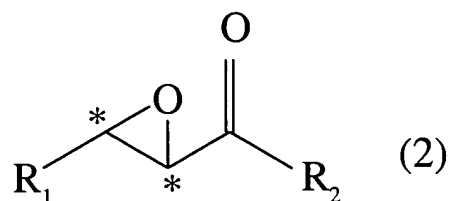
wherein R<sub>1</sub> and R<sub>2</sub> are as defined above, with an oxidizing agent in the presence of a

catalyst ~~defined in Claim 1 or 2.~~

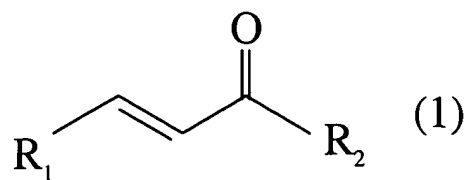
5. (Currently Amended) The process for producing an optically active epoxide according to Claim 4, wherein the reaction is carried out by adding the enone to a catalyst solution ~~as defined in Claim 2~~ and then supplying cumene hydroperoxide or tert-butyl hydroperoxide thereto.

6. (Currently Amended) The process for producing an optically active epoxide according to Claim 4, wherein the reaction is carried out by supplying a mixture comprising the enone and cumene hydroperoxide or tert-butyl hydroperoxide to a catalyst solution ~~as defined in Claim 2.~~

7. (Currently Amended) A process for producing an optically active epoxide of the following formula (2)



wherein each of R<sub>1</sub> and R<sub>2</sub> which are independent of each other, is a C<sub>1-20</sub> linear, branched or cyclic alkyl group, an aromatic group, an aromatic group substituted by from 1 to 5 C<sub>1-5</sub> alkyl groups, an aromatic group substituted by from 1 to 5 C<sub>1-5</sub> alkoxy groups, an aromatic group substituted by from 1 to 5 halogen atoms, a C<sub>1-5</sub> linear, branched or cyclic alkyl group substituted by an aromatic group, or a C<sub>1-5</sub> linear, branched or cyclic alkyl group substituted by a halogenated aromatic group, and symbol \* represents optically active carbon, which comprises reacting an enone of the following formula (1):



wherein R<sub>1</sub> and R<sub>2</sub> are as defined above, with an oxidizing agent in the presence of a catalyst as defined in Claim 3.